

# Modulus

This is a regex golf problem. You have to write a regex that matches all lines from one list and none from the second one. Matching is implemented as Perl's `m//`, so it's not a precise match. E.g. to match "SPOJ" you don't need regex `/^SPOJ$/` since it's enough to write `/PO/` or `/J/`.

The regexes submitted should be compatible with Perl regular expressions (version 5.20.1).

Score is calculated as follows: it's equal to the length of your regex and for every line from the first list that's not matched by your regex  $X$  points are added to your score. Analogically, for every line from the second list that's matched by your regex  $X$  points are added to your score. The lower your score is, the better.  $X$  often equals 10 but it's different in some problems. Check below this problem's  $X$  value.

To quickly check the quality of your solution visit the original [regex golf project](#).

Please don't look for solutions for this problem online or at least don't post them here if you didn't come up with them on your own.

## Match all of these...

```
x % xxxx = x
xx % xxxxxxxx = xx
xx % xxxxxxxxxxxxxxxxxxxx = xx
xxx % xxxxxx = xxx
xxxx % xxx = x
xxxx % xxxxxx = xxxx
xxxxx % xx = x
xxxxxxx % xxx = x
xxxxxxx % xxx = xx
xxxxxxxx % xxx = xx
xxxxxxxx % xxxxxx = xxx
xxxxxxxx % xxxxxx = xx
xxxxxxxx % xxx = x
xxxxxxxx % xxx = xx
xxxxxxxx % xxxxxx = xx
xxxxxxxx % xxxxxx = xxxx
xxxxxxxx % xx = x
xxxxxxxx % xxxxxx = x
xxxxxxxx % xxxxxx = xxxx
xxxxxxxx % xxxxxx = xxx
xxxxxxxx % xxxxxx = x
```

## And none of these...

```
x % xxx = xxxxxxxx
```

xx % xxxxxxxx = xxxxxxxxxx  
xxx % xx = xx  
xxxx % xxx = xx  
xxxx % xxxxx = x  
xxxx % xxxxxxxx = x  
xxxxx % xxx = xxx  
xxxxx % xxxxx = xxxxx  
xxxxxxx % xx = xxxxxxxxxx  
xxxxxxx % xxx = x  
xxxxxxx % xxxxxx = xxx  
xxxxxxxxxxxx % xx = x  
xxxxxxxxxxxx % xxx = x  
xxxxxxxxxxxx % xxxx = xxx  
xxxxxxxxxxxx % xxxxx = xx  
xxxxxxxxxxxx % xxxxxx = x  
xxxxxxxxxxxx % xxx = xxxxx  
xxxxxxxxxxxx % xxxxx = xxx  
xxxxxxxxxxxx % xxxxxx = xx  
xxxxxxxxxxxx % xxxxx = x

**X = 10**

The author of this problem is [teukon](#).